



UNIVERSITAS NEGERI YOGYAKARTA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF PHYSICS EDUCATION
PHYSICS STUDY PROGRAM

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Bachelor of Physics

MODULE HANDBOOK

Module name:	Seismology
Module level, if applicable:	Undergraduate
Code:	FSK6270
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	5 th
Module coordinator:	Khafidh Nur Aziz, M.Sc.
Lecturer(s):	Khafidh Nur Aziz, M.Sc.
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective Course
Teaching format / class hours per week during the semester:	100 minutes lectures ,120 minutes structured activities, and 120 minutes individual study per week.
Workload:	Total workload is 90,67 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks.
Credit points:	2 SKS (3.25 ECTS)
Prerequisites course(s):	Vibration and Waves (FSK6316)
Course Outcomes	A. mastering the basics of seismology. B. mastering earthquake mechanism. C. analyze earthquake source mechanisms. D. analyze different tectonic environments from focal mechanisms.
Content:	This course discusses history and insight into seismology,

	seismological instrumentation, seismic waves, earthquake source mechanisms, and focal mechanism.															
Study / exam achievements:	The final mark will be weight as follow: <table><tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr><tr><td>1</td><td>CO1, CO2, CO3, and CO4</td><td>a. Assignment (Individual, Case Study) b. Mid c. Final Exam</td><td>Written Test</td><td>50% 25% 25%</td></tr><tr><td colspan="4">Total</td><td>100%</td></tr></table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO1, CO2, CO3, and CO4	a. Assignment (Individual, Case Study) b. Mid c. Final Exam	Written Test	50% 25% 25%	Total				100%
No	CO	Assessment Object	Assessment Technique	Weight												
1	CO1, CO2, CO3, and CO4	a. Assignment (Individual, Case Study) b. Mid c. Final Exam	Written Test	50% 25% 25%												
Total				100%												
Forms of media:	Board, LCD Projector, Laptop/Computer															
Literature:	A. Shearer, P.M. 2009. Introduction to Seismology 2nd Edition. Cambridge: Cambridge University Press. B. Aki, K. and Richards, P. G. (2002). Quantitative Seismology, 2nd edn, Sausalito, CA: University Science Books.															

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8
CO1		√						
CO2		√			√			
CO3					√			
CO4					√			